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Agricultural Memorandum No 695

Agroclimatic area averages - estimation of average grass growing season, 1941-1970

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Ag Mem 504 gives details of the start and end of the growing season with reference to the 1 ft. earth temperatures. Air temperature averages for the same period for 36 of these sites are contained in MO 735. Analysis show that:-

If F = mean February air temp.
A = mean April air temp.
N = mean November air temp.
J = mean January air temp.

and S = start of season measured in days after end of February
E = end of season measured in days after end of October

then $S = 98 - 9.7 F - 4.65 A$
 $E = 4N + 10 J - 26$

with multiple correlation of 0.93 in each case.

The uses of March or December air temps. do not effectively improve the fit.

These equations can now be used on the average areal air temperatures (Ag Mem 694) for each of the new agroclimatic areas, with the results shown in the Appendix.

Any comments or suggestions on this paper should be referred to the author.

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Bracknell

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P.T.O.

1941-70. Estimated average grass growing season

M = March N = Nov J = Jan

A = April D = Dec F = Feb

Area	1A	1B	2	3	5	6A	6B	7	8	9
Start	A4	A2	A21	A3	A2	A26	A25	A6	A2	M23
End	M27	N26	N7	N26	D6	N2	O31	N22	N26	D6
Length	237	238	200	237	248	190	189	230	238	258
Area	10	11	12	13	14	15A	15B	16	17A	17B
Start	A16	A4	M27	M28	M24	A5	M29	M29	M27	M27
End	N11	N22	N27	N30	D5	N20	N25	N27	N29	N31
Length	209	232	245	247	256	229	241	243	247	249
Area	18A	18B	19	20	21	22A	22B	23	24	
Start	M30	A6	M31	M29	M23	M30	M30	M25	M26	
End	N27	N20	N26	N25	N29	N23	N25	D1	N29	
Length	242	228	240	241	251	238	240	251	248	
Area	25A	25B	26	27	28	29	30	31A	31B	
Start	M24	M21	M27	M26	M26	M26	M19	M23	M22	
End	D2	D5	N28	N29	N30	N29	D7	D2	D3	
Length	253	259	246	248	249	248	263	254	256	
Area	32	33	34	35	36	37A	37B	38A	38B	
Start	M23	M24	M18	M17	M23	M22	M19	M23	M19	
End	D5	D3	D9	D11	D4	D5	D12	D1	D12	
Length	257	254	266	269	256	258	268	253	268	
Area	39A	39B	40	41	42	43A	43B	44	45A	45B
Start	M25	M19	F26	M13	M9	M25	M8	M21	M14	M14
End	D4	D13	J8	D22	D28	D7	D26	D13	D18	D13
Length	254	269	316	284	294	257	293	267	279	274
Area	46	47	48A	48B	49A	49B	50	51	52	
Start	M13	M16	A11	A11	A10	A10	M20	A6	M19	
End	D17	D23	N22	N20	N21	N21	D16	N21	D12	
Length	279	282	225	223	225	225	271	229	268	